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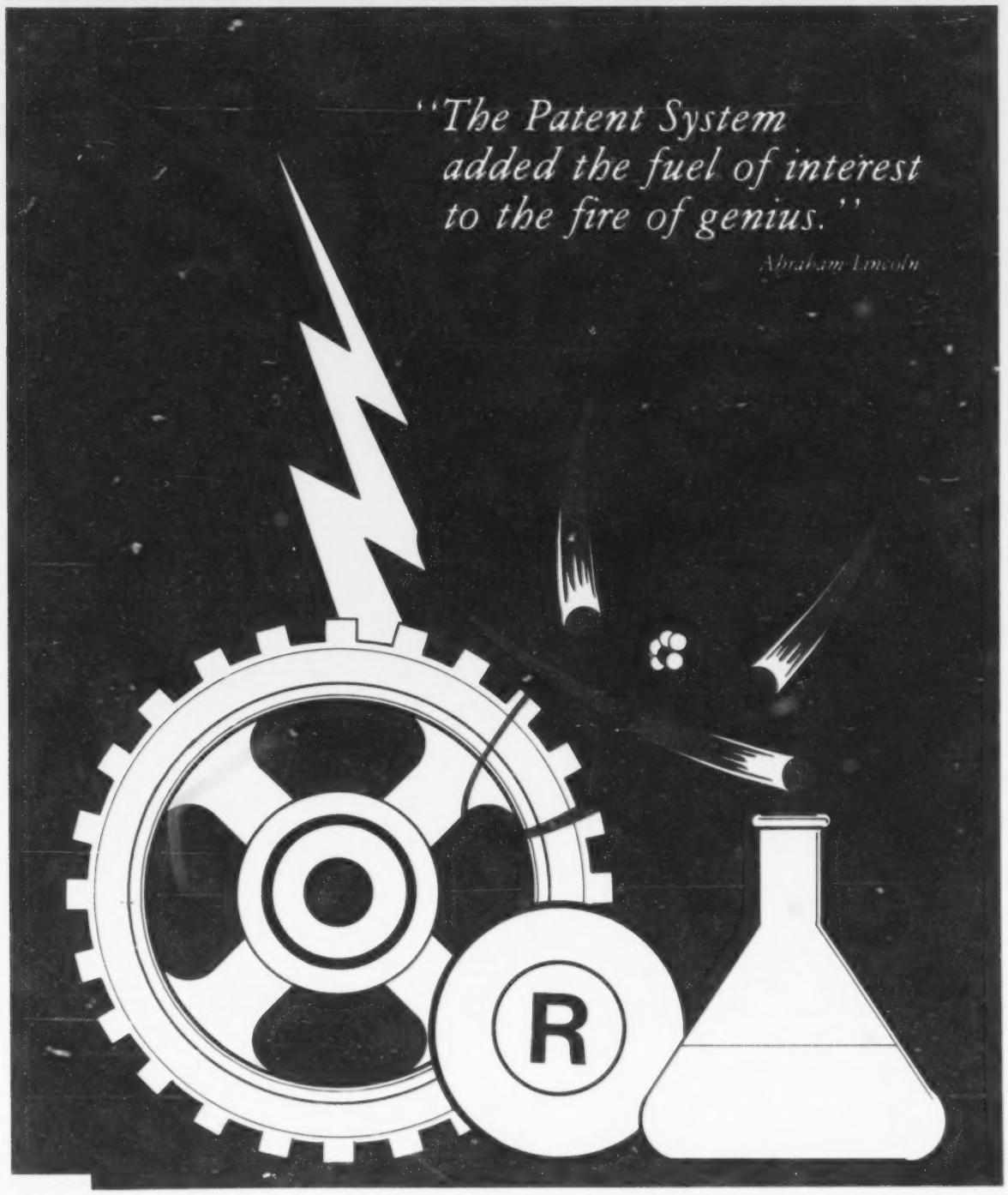
U.S. Department of Commerce
PATENT & TRADEMARK OFFICE



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PATENT AND TRADEMARK OFFICE
United States Department of Commerce
Washington, DC 20231

Contact:
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College Relations
Office of Personnel
Patent and Trademark Office
1CPK, Suite 700
Washington, DC 20231
(703) 557-3631
Toll-free 800-368-3064

BACKGROUND

In 1790, President George Washington authorized the foundation for the modern U.S. patent system and the Patent and Trademark Office. Since then, the patent system, which was originally provided for in the U.S. Constitution, has stimulated national growth by encouraging the invention and disclosure of new technology. In return for the right to exclude others from making, using or selling the invention for 17 years, the inventor discloses to the public detailed information about the invention.

CAREER OPPORTUNITIES

Each year many recent college graduates are hired to examine applications for patents. Opportunities are available for:

ENGINEERS

Applicants from all engineering disciplines will be considered. However, candidates in the following speciality areas are preferred:

Electrical and Electronic Engineers (BSEE and MSEE candidates preferred).
Electrical and Electronic engineers typically judge the patentability of inventions in areas such as photography, illumination, transmission systems, information transmission, storage and retrieval, radio, television, data processing systems, electrical switches, semiconductor devices, radiant energy, and optics.

Mechanical Engineers (BSME and MSME candidates preferred).
Mechanical engineers typically judge the patentability of inventions in areas such as conveyors, aeronautics, motor vehicles, tools, surgery, power plants, internal combustion engines, and heat generation.

Chemical Engineers (BSChE and MSChE candidates preferred).
Chemical engineers typically judge the patentability of inventions in areas such as petroleum chemistry, metallurgy, carbon compounds, plastics, fuels, medicines, high polymer chemistry, natural resins, carbohydrates, photography, foods, molecular biology, microbiology, and phase separation.

SCIENTISTS

Career opportunities for BS, MS and PhD degree graduates are available for scientists such as physicists, chemists, biologists, microbiologists and related sciences.

Chemists, Biologists, Microbiologists and Related Sciences
Examiners with these backgrounds typically judge the patentability of inventions relating to chemical or biotechological products and processes. Many of these inventions have food, environmental, pharmaceutical or agricultural applications and may involve new compounds, formulations or life forms. Inventions in areas involving recombinant DNA, immunology, cell biology, enzymology and plant sciences are examined by those having a background in the biological sciences.

Physicists
Physicists typically judge the patentability of inventions in such areas as semiconductor physics, radiant energy, atomic and nuclear physics, optics and lasers.

WHAT A PATENT EXAMINER DOES

The Patent and Trademark Office (PTO) determines the patentability of discoveries of inventors throughout the world. This determination is made by approximately 1400 highly trained scientists and engineers (Patent Examiners). An Examiner analyzes the subject matter of an application for a patent and the pertinent prior art, i.e., patents and other published material, and determines whether the claimed invention is patentable. He/She applies procedural and substantive law and grants or rejects the claims of the application. Generally Examiners specialize in one of the engineering or scientific fields.

CHALLENGE AND RESPONSIBILITY

The Patent system is at the forefront of the technological advancement with patents forming a basic and necessary incentive for research and development. Examiners are constantly exposed to the latest innovations in a field. As a patent examiner, your decisions are a crucial link in an incentive system which impacts upon the national growth.

Examiners are confronted with a vast array of technological and legal challenges. During the normal course of a workday, Examiners interact with attorneys and inventors. Although examiners work within a given art, each application is a unique entity.

Upon becoming a fully trained Examiner you will work independently. Your decisions can result in fortunes being made and industries being established.

Responsibility and independent judgement are the keystone of a patent examining career.

TRAINING

Every patent examiner receives both on-the-job and formal training. On-the-job training is determined by the supervisor and comprises individual instructions in the complexities of patent examining. Formal training begins with an initial class (Phase I of the Patent Academy) which provides the new examiner with the basics of patent examining practice and procedure.

Phases II-IV of the Patent Academy, given during the first year of employment, cover all advanced examining functions and legal concepts involved in these functions.

In-house legal and technical courses and periodic visits to companies are offered after the first year of employment. Additional advanced training at local universities and law schools is available to interested employees, depending on the existence of funding.

ADVANCEMENT OPPORTUNITIES

Promotions are based on ability and work performance. Promotion to the GS-14 level generally takes from five to seven years, depending on the starting level and individual performance. Promotion to the GS-14 level requires the attainment of full signatory authority.

Advancement opportunities are excellent. Individuals are considered for promotion after a minimum of one year at the preceding level. At the entry level, patent examiners in Engineering specializations are eligible for promotion after 6 months at the preceding level. Competition for promotion takes place *only* for supervisory positions.

FRINGE BENEFITS

1. Thirteen days of annual or vacation leave for the first three years, twenty days of annual leave for the next twelve years, twenty six days a year after fifteen years of service.
2. Thirteen days of sick leave a year. This can accrue from year to year with no maximum limit.
3. Two weeks of military leave annually if you are a reservist or a member of the National Guard.
4. Court leave if you are called for jury duty.
5. Good retirement system. Employees will be covered by the Federal Employees Retirement System (FERS) which includes a thrift savings plan. Employees can make tax-deferred contributions to a savings plan and a portion will be matched by the Government.
6. Ten paid holidays each year.
7. Compressed workweeks and flexitime schedules.
8. Health benefits from a large number of companies are available for which the Government pays part of the premium.
9. Life insurance for which the government pays part of the premiums.
10. A liberal system of benefits if you are injured on the job.
11. Paid overtime and bonuses are available.

BASIC QUALIFICATION REQUIREMENTS

ENGINEERS

GS-5: Successful completion of a full 4-year professional engineering curriculum leading to a Bachelor's or higher degree in engineering in an accredited college or university.

CHEMISTS

GS-5: Successful completion of all of the requirements for a bachelor's degree in an accredited college or university that has included 30 semester hours of chemistry.

MICROBIOLOGISTS

GS-5: Successful completion of all of the requirements for a bachelor's degree in an accredited college or university with major study in microbiology, biology, or chemistry. Such study must have included at least 30 semester hours in biological science of which 20 hours are in microbiology and related subjects.

PHYSICISTS

GS-5: Successful completion of all of the requirements for a bachelor's degree in an accredited college or university that has included 24 semester hours of physics.

BIOLOGISTS

GS-5: Successful completion of all of the requirements for a bachelor's degree in an accredited college or university with major study in biological sciences, agriculture, natural resource management or allied disciplines.

ENGINEER/SCIENTIST REQUIREMENTS FOR GS-7 AND ABOVE:

GS-7

GS-5 level requirements as stated on page 5 plus:

- one year of professional experience in an appropriate field.
- one full year of graduate education in an appropriate field.
- one year of appropriate student trainee or cooperative workstudy experience.
- attainment of superior academic achievement (for more information refer to page 4, part III of form 1170/17).

GS-9

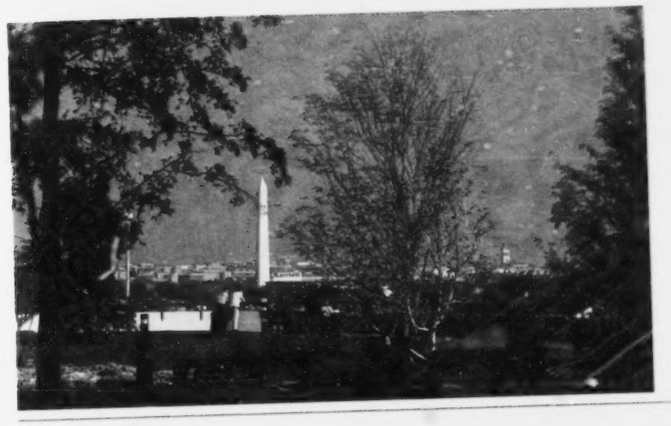
GS-5 level requirements as stated on page 5 plus:

- two years of professional experience in an appropriate field.
- completion of all requirements for a master's degree in an appropriate field.
- two full years of graduate education in an appropriate field.
- a combination of superior academic achievement (as required for GS-7 above) plus 1 year of appropriate professional experience.

GS-11

GS-5 level requirements as stated on page 5 plus:

- three years of professional experience in an appropriate field.
- completion of all requirements for a Doctoral Degree in an appropriate field.
- three full years of graduate education in an appropriate field.



The Patent and Trademark Office is located in Crystal City, Virginia, just across the Potomac River from Washington, D.C.

The Chesapeake Bay is about an hour east of DC, the Atlantic beaches about 2½ hours away, and the foothills of the Blue Ridge an hour to the west. Shenandoah National Park is 2 hours southwest.

Shopping centers are readily accessible both in downtown DC as well as in suburban Maryland and Virginia. A shopping mall is located in Crystal City under the Patent and Trademark Office Office buildings and includes restaurants, boutiques, post office, health club, etc.

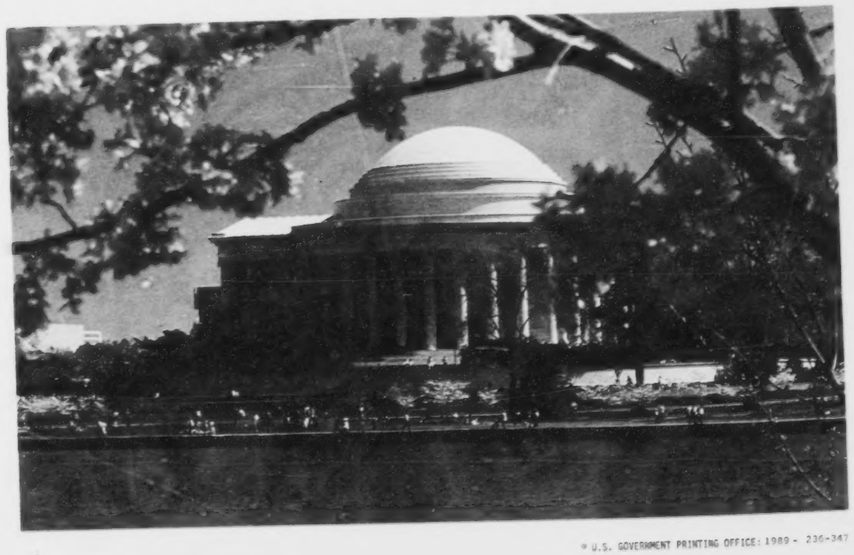
Public transportation to the Patent and Trademark Office is excellent by both subway and bus systems. Carpools and vanpools are also available.

THE NATION'S CAPITOL.

The location, size, and national role of Washington, DC make it a city in which you can observe or participate in just about any sport, cultural, community, or recreational activity you wish. The White House, the Capitol, and the business and historic districts of downtown Washington, DC are minutes away from Crystal City.

Opportunities to enjoy the theater, music, and dance abound in Washington. Cultural facilities include:
- the Kennedy Center, National Theatre, Warner Theatre, and the Ford Theatre
- the National Symphony
- the Washington Opera
- the Arena Stage and Wolf Trap Farm Park which features internationally known orchestras, opera and dance companies, and theatre personalities.

Washington's museums and universities offer lecture series and seminars to the public on subjects ranging from plant identification to the history of jazz. Museums and galleries include:
- the Smithsonian
- the National Gallery
- the Phillips Collection
- the Freer Gallery
- the Corcoran Art Gallery



* U.S. GOVERNMENT PRINTING OFFICE: 1989 - 236-347

SUPPLEMENTAL QUALIFICATIONS STATEMENT

Form Approved
OMB No. 3206-0038

LIST OF COLLEGE COURSES AND CERTIFICATE OF SCHOLASTIC ACHIEVEMENT

Complete and submit this Form with your Personal Qualifications Statement

1. Name *(Last, First, M.I.)*	2. Birth date *(Month, day, year)*	3. Social Security Number

4. Position for which you are applying *(Include options, if any)*

5. List the undergraduate and/or graduate college degrees you have received or expect to receive *(Give name of degree, name of college or university granting degree, and date received or to be received)*

6. State your major undergraduate course(s) of study	6a. State your major graduate course(s) of study

PART I – COLLEGE COURSES

List below by appropriate academic field (e.g., biology, mechanical engineering, economics, sociology, etc.) all courses you have taken (including those failed) which appear to satisfy the qualification requirements of positions for which you are applying. List graduate and undergraduate courses separately. Credits for each category should be totaled to determine if you meet the minimum course requirements.

Indicate academic field:

DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM
TOTAL					

Indicate academic field:

DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM
TOTAL					

Indicate academic field:

DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM
TOTAL					

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TOTAL					

Indicate academic field:

DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM
TOTAL					

Indicate academic field:

DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM
TOTAL					

MISCELLANEOUS COURSES

DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM	DESCRIPTIVE TITLE	COMPLETION DATE	GRADE	CREDIT HOURS SEM	QTR	CLASS ROOM
TOTAL						TOTAL					

PART II – PRIVACY ACT STATEMENT AND CERTIFICATION

The Office of Personnel Management is authorized by section 1302 of Chapter 13 (Special Authority) and sections 3301 and 3304 of Chapter 33 (Examination, Certification, and Appointment) of Title 5 of the U.S. Code to collect the information on this form.

Executive Order 9397 (Numbering System for Federal Accounts Relating to Individual Persons) authorizes the collection of your Social Security Number (SSN). Your SSN is used to identify this form with your basic application. It may be used for the same purposes as stated on the application.

The information you provide will be used primarily to determine your qualifications for Federal employment. Other possible uses or disclosures of the information are:

1. To make requests for information about you from any source; (e.g., former employers or schools), that would assist an agency in determining whether to hire you;
2. To refer your application to prospective Federal employers and, with your consent, to others (e.g., State and local governments) for possible employment;
3. To a Federal, State, or local agency for checking on violations of law or other lawful purposes in connection with hiring or retaining you on the job, or issuing you a security clearance;
4. To the courts when the Government is party to a suit; and
5. When lawfully required by Congress, the Office of Management and Budget, or the General Services Administration.

Providing the information requested on this form, including your SSN, is voluntary. However, failure to do so may result in your not receiving an accurate rating, which may hinder your chances for obtaining Federal employment.

ATTENTION – THIS STATEMENT MUST BE SIGNED

Read the following paragraph carefully before signing this Statement

A false answer to any question in this Statement may be grounds for not employing you, or for dismissing you after you begin work, and may be punishable by fine or imprisonment (U.S. Code, Title 18, Sec. 1001). All statements are subject to investigation, including a check of your fingerprints, police records, and former employers. All the information you give will be considered in reviewing your Statement and is subject to investigation.

CERTIFICATION	Signature *(Sign in ink)*	Date Signed
I CERTIFY that all of the statements made in this Statement are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.		

COMPLETE PART III ON THE NEXT PAGE IF YOU CLAIM SUPERIOR ACADEMIC ACHIEVEMENT

PART III – SCHOLASTIC ACHIEVEMENT

NOTE: This part is for the use of college students and graduates who may qualify for some GS-7 and GS-9 positions on the basis of undergraduate scholastic achievement, as provided in an open announcement. *See the appropriate announcement for complete requirements.* If you do not wish to qualify on this basis or if you do not meet the requirements below, do not complete this part. In any case, YOU MUST SIGN YOUR NAME AFTER THE CERTIFICATION STATEMENT AT THE BOTTOM OF PAGE 3.

A. COLLEGE OR CLASS STANDING. Must be in upper third of the college or university, or major subdivision such as School of Engineering, School of Business Administration, etc.

NUMBER IN CLASS _____ YOUR STANDING _____

B. COLLEGE GRADE AVERAGE. Must equal a "B" average (2.90 on a 4.0 scale) or better for *all* undergraduate courses, or equal "B +" (3.5) or better in courses comprising the major field of study, completed during the period specified in the announcement under which you file. If the announcement permits a choice of computing periods, you may use the one which gives you the best average. In any case you should indicate the method used by check mark in the appropriate box in item 1 *and* in item 2 below, *and* compute your average in the space provided at the bottom of this page.

1. (Check one) ☐ "B" average for all undergraduate courses
   ☐ "B +" average in major field of study
2. (Check one) ☐ All 4 years ☐ First 3 years ☐ Last 2 years*
   ☐ At time of filing *(In some announcements this is the only computing period permitted.)*

***NOTE:** For those announcements which permit you to qualify on the basis of a grade average during the last 2 years of the undergraduate curriculum, you may be rated provisionally eligible if you are a senior student, provided you have the required average in the junior year. You will be required to submit evidence at the time of appointment that you maintained the required average during your senior year.

Most colleges have "A," "B," "C," and "D" as passing grades and compute grade point averages on a 4, 3, 2, 1 scale. In computing your grade point average, round to the first decimal place (e.g., 2.95 = 3.0, 2.94 = 2.9, etc.); however, the 2.90 average may not be achieved by rounding up a lower average. If your college uses a different system, explain below and show how it compares with the "A," "B," "C," "D" system.

NO. OF SEMESTER OR QUARTER HOURS WITH A GRADE OF "A"	_____	X 4	=	_____
NO. OF SEMESTER OR QUARTER HOURS WITH A GRADE OF "B"	_____	X 3	=	_____
NO. OF SEMESTER OR QUARTER HOURS WITH A GRADE OF "C"	_____	X 2	=	_____
NO. OF SEMESTER OR QUARTER HOURS WITH A GRADE OF "D"	_____	X 1	=	_____
NO. OF SEMESTER OR QUARTER HOURS FAILED	_____	X 0	=	_____
TOTAL (1)	_____	TOTAL (2)		_____

GRADE POINT AVERAGE _____
Total (2) divided by Total (1)

C. HONOR SOCIETY MEMBERSHIP. Must be one of the national honorary scholastic societies meeting the minimum requirements of the Association of College Honor Societies (other than freshman scholarship honor societies).

Name of honor society and date you were elected to membership _____

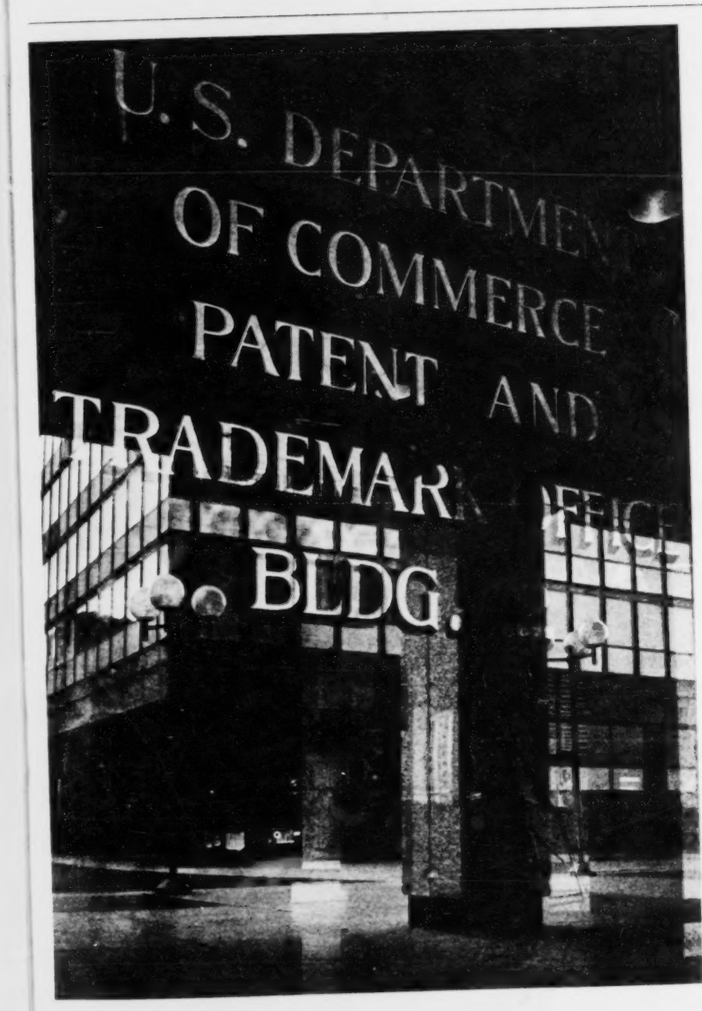
NOTE—Many colleges and universities offer courses of study which have disposed, in whole or in part, of traditional grading systems in favor of pass/fail or similar systems. If your grades are more than 10 percent pass/fail, you may claim credit under the scholastic achievement provision only on the basis of class standing or membership in a national honorary society. Proof of class standing should be in the form of a statement in writing from the institution's registrar, the dean of the applicant's course of study, or the appropriate department head or chairman. This statement of class standing must be based on a suitable measure of the student's academic performance, such as the results of a comprehensive examination or an overall faculty assessment, and must indicate the basis of the judgment. Class standing must be based on the candidate's standing in his college or university or a major subdivision of the university (e.g., the College of Business Administration, the College of Arts and Sciences, etc.). Subdivisions of colleges, such as the History Department, are not recognized as subdivisions for this purpose. This proof should not be submitted with your application, but will be required by your hiring agency before you may report for work.

BE SURE TO SIGN THIS FORM AT THE BOTTOM OF PAGE 3.

ENGINEERS AND SCIENTISTS

A CAREER FOR YOU IN PATENT EXAMINING

The Patent and Trademark Office offers unique career opportunities for engineers and scientists as Patent Examiners.



For More Information About A Career As A Patent Examiner Contact:

Manager, College Relations
Personnel, ICPK, Suite 700
Patent and Trademark Office
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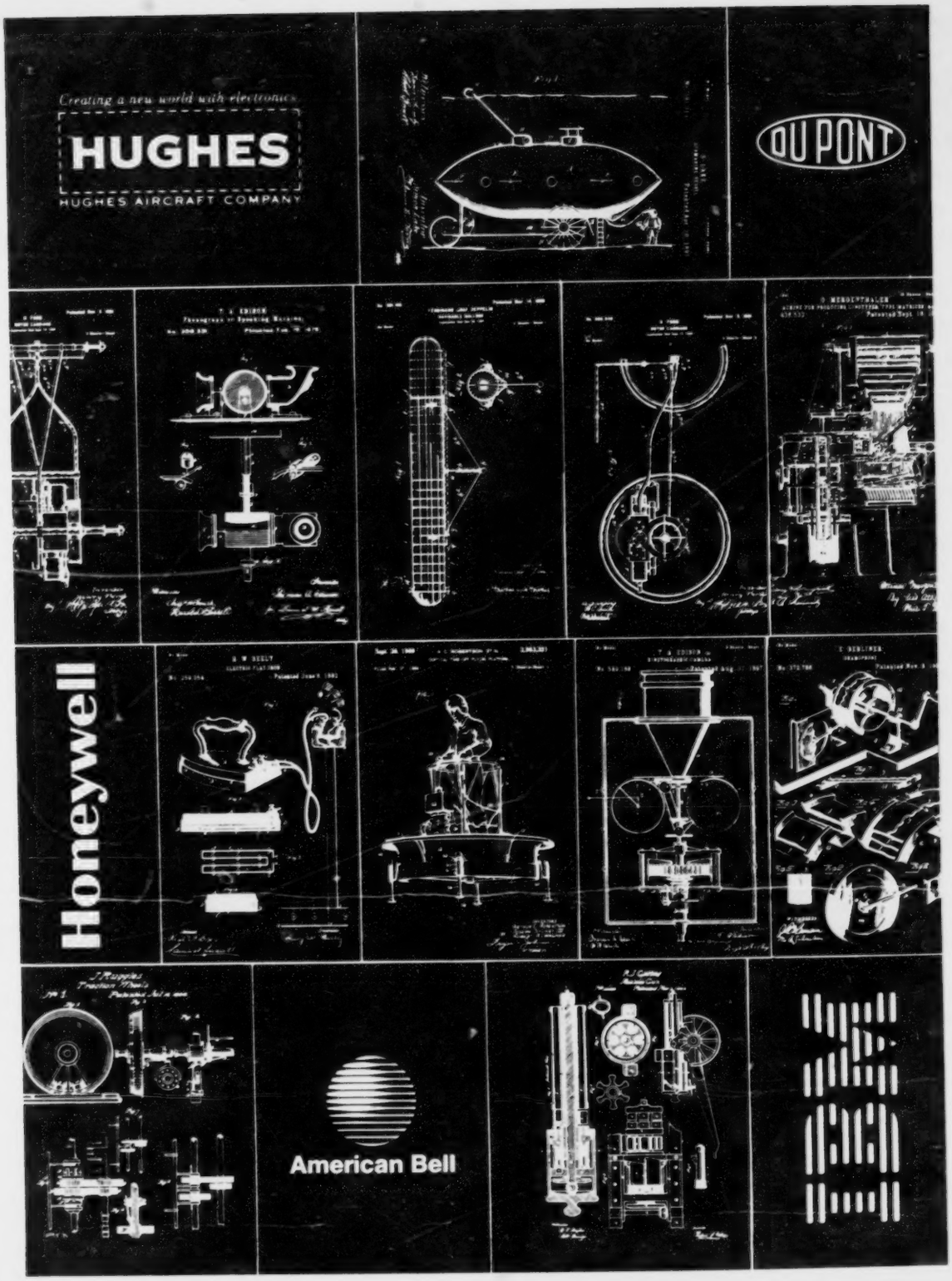
Call Toll Free (800) 368-3064
Or Call Collect: (703) 557-3631

An Equal Opportunity Employer m/f
U.S. Citizenship Required


Creating a new world with electronics
HUGHES
HUGHES AIRCRAFT COMPANY
DUPONT
Honeywell
American Bell